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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,056	12/27/2001	Ming-Yau Chem	JCLA8425	3244

7590 02/25/2003

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EXAMINER

PRITCHETT, JOSHUA L

ART UNIT	PAPER NUMBER
2872	

DATE MAILED: 02/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/035,056	CHERN ET AL.
	Examiner	Art Unit
	Joshua L Pritchett	2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 22 January 2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-10 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-10 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____

4) Interview Summary (PTO-413) Paper No(s) _____

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Applicant's arguments filed January 22, 2003 have been fully considered but they are not persuasive. Therefore, all the rejections made in paper number 4 are repeated.

Applicant argued that the rejection of claim 1 was improper because the primary reference Bohaty failed to teach or suggest a bismuth film as a non-linear optical material. The examiner disagrees Bohaty clearly teaches a bismuth film with non-linear optical properties (see abstract). Applicant further argues that Bohaty does not teach or suggest a metallic bismuth film. In response the examiner states that the applicant's argument is not relevant to the claimed invention because the argued feature is not included in the claim.

Applicant argued that the rejection of claim 2 was improper because the Takenaka reference cannot be combined with the Bohaty reference because the Takenaka method of production could not produce the material taught by Bohaty. Takenaka teaches a method to produce an YBCO oxide superconducting body (col. 4 lines 44-45). Bohaty teaches a bismuth oxide material (BIBO and MBIBO), because both Takenaka and Bohaty produce oxides

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containing boron it is reasonable that the Bohaty oxide may be produced in the same manner as the Takenaka oxide. Although Bohaty teaches a different method to produce BIBO and MBIBO, Bohaty may still be combined with another reference to teach a different method to produce the same material.

Applicant argued that the rejection of claim 4 was improper because Hed cannot teach putting a protective cover on the bismuth film because Hed does not teach the bismuth film. Hed teaches the use of a transparent protective layer to cover a superconductor (Fig. 1A). Hed also teaches that bismuth based oxides can be superconductors (col. 3 lines 50-52). Therefore, Hed and Bohaty can be properly combined because Bohaty teaches a bismuth oxide.

Applicant argued that the rejection of claim 9 was improper because Wang cannot cure the deficiencies of Hed and Bohaty. The examiner respectfully disagrees. The combination of Bohaty and Wang was properly made and meet the claimed invention because the use of quartz as a base for supporting the nonlinear material is clearly taught in Wang.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua L Pritchett whose telephone number is 703-305-7917. The examiner can normally be reached on Monday - Friday 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cassandra Spyrou can be reached on 703-308-1687. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

JLP
February 24, 2003



James Phan
Primary Examiner